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NOTICE OF ALLOWANCE AND FEE(S) DUE

²⁶²⁰⁰ 7590 04/01/2011 FISH & RICHARDSON P.C. P.O BOX 1022 MINNEAPOLIS, MN 55440-1022 EXAMINER

BAUER, SCOTT ALLEN

ART UNIT PAPER NUMBER

2836

DATE MAILED: 04/01/2011

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/811,031	03/26/2004	Xiaodong Jin	MP0358/13361-058001	1354

TITLE OF INVENTION: METHOD AND APPARATUS FOR IMPROVING SUPPLY NOISE REJECTION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$0	\$0	\$1510	07/01/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN <u>THREE MONTHS</u> FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. <u>THIS STATUTORY PERIOD CANNOT BE EXTENDED.</u> SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

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If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 or Fax (571)-273-2885

maintenance fee notificat	ions.	g the Patent, advance or terwise in Block 1, by (a	Not Fee	te: A certificate of 1	nailing	can only be used for	correspondence address as rate "FEE ADDRESS" for domestic mailings of the or any other accompanying
FISH & RICHA P.O BOX 1022 MINNEAPOLIS	7590 04/01 ARDSON P.C. , MN 55440-1022	/2011	pap hav	ers. Each additional e its own certificate Cert	paper, of mail ificate	such as an assignmer ing or transmission. of Mailing or Transr	nt or formal drawing, must
			<u> </u>				(Depositor's name)
			<u> </u>				(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	₹	ATTOR	RNEY DOCKET NO.	CONFIRMATION NO.
10/811,031	03/26/2004		Xiaodong Jin		MP03	358/13361-058001	1354
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	EEE I	TOTAL FEE(S) DUE	DATE DUE
			\$0		11515	* *	07/01/2011
nonprovisional	NO	\$1510	20	\$0 ¬		\$1510	07/01/2011
EXAMINER ART		ART UNIT	CLASS-SUBCLASS	_			
BAUER, SCC	OTT ALLEN	2836	361-091100				
"Fee Address" indi PTO/SB/47; Rev 03-0: Number is required. 3. ASSIGNEE NAME AT PLEASE NOTE: Unlo	ess an assignee is ident n in 37 CFR 3.11. Comp	'Indication form ed. Use of a Customer A TO BE PRINTED ON The description of the descrip	(1) the names of up to or agents OR, alternatic (2) the name of a single registered attorney or 2 registered patent attained, no name will be THE PATENT (print or ty data will appear on the Γ a substitute for filing an (B) RESIDENCE: (CITY	le firm (having as a agent) and the name orneys or agents. If reprinted. pe) patent. If an assigned assignment.	membe es of up no name	er a 2	cument has been filed for
Please check the appropri	ate assignee category or	categories (will not be pr	inted on the patent):	Individual 🖵 Co	rporatio	on or other private gro	up entity Government
	ne submitted: o small entity discount p of Copies	permitted)	4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
	s SMALL ENTITY statu	is. See 37 CFR 1.27.	b. Applicant is no lord from anyone other than Office.				R 1.27(g)(2). e assignee or other party in
Authorized Signature Typed or printed name				Date Registration No			
This collection of informa	ation is required by 37 C	FR 1 311 The information	on is required to obtain or	retain a benefit by th	e publi	c which is to file (and	by the USPTO to process) g gathering, preparing, and the you require to complete rement of Commerce, P.O. or Patents P.O. Box 1450

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/811,031	03/26/2004	Xiaodong Jin	MP0358/13361-058001 1354		
26200 75	90 04/01/2011	EXAMINER			
FISH & RICHARDSON P.C.			BAUER, SCOTT ALLEN		
	P.O BOX 1022 MINNEAPOLIS, MN 55440-1022			PAPER NUMBER	
MININEAI OEIS, I	MY 33440-1022		2836		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 166 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 166 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

- 1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
- 2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
- 3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
- 4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
- 5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
- 6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
- 7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
- 8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
- 9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

	Application No.	Applicant(s)	
	10/811,031	JIN ET AL.	
Notice of Allowability	Examiner	Art Unit	
	SCOTT BAUER	2836	
	GOOTT BAGEIT	2000	
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comr GHTS. This application is	in this application. If not include nunication will be mailed in due	ed course. THIS
1. \blacksquare This communication is responsive to <u>the amendment of 25</u>	FEB 2011.		
2. X The allowed claim(s) is/are 2.3,6-8,18,19,22,23,32,35,36 a	nd 39-44.		
 3. Acknowledgment is made of a claim for foreign priority un a) All b) Some* c) None of the: 1. Certified copies of the priority documents have) or (f).	
2. ☐ Certified copies of the priority documents have		tion No.	
3. ☐ Copies of the certified copies of the priority doc		<u></u>	ation from the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		ile a reply complying with the re	quirements
4. A SUBSTITUTE OATH OR DECLARATION must be subminification (PTO-152) which give			NOTICE OF
5. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.		
(a) \square including changes required by the Notice of Draftspers	on's Patent Drawing Revi	ew (PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment	or in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in t			e back) of
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT			Note the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 □ Notice of	Informal Patent Application	
 Induce of References Gled (FTO-892) Induce of Draftperson's Patent Drawing Review (PTO-948) 		Summary (PTO-413),	
	Paper No	o./Mail Date	
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 	7. ∐ Examiner	's Amendment/Comment	
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material		's Statement of Reasons for All	owance
	9.	·	

Reasons for Allowance

Claims 2, 3, 6-8, 18, 19, 22, 23, 32, 35, 36 & 39-44 are allowed.

Applicant has amended the claims to overcome the previous rejection. All claims that were previously indicated as being allowable if rewritten to include all language of the base claim and intervening claims have been amended as such. All claims that were previously indicated as allowable have been amended are now independent claims containing the allowable subject matter. This amendment was discussed in a telephonic interview that occurred on 18 FEB 2011 in which the current amendments were proposed and the examiner agreed that if the proposed claims were submitted that the application would be put in condition for allowance. As such, the claims have been properly amended and the previous rejection has been overcome. The application is now in condition for allowance.

The following is an examiner's statement of reasons for allowance:

Claim 6 is allowable because the prior art of record does not teach or fairly suggest an apparatus comprising all the features as recited in the claims and in combination with the electrostatic discharge protection circuit is operable to float the low voltage supply and to shunt: the radio frequency input to high voltage supply positive discharge pulse using the second diode and the electrostatic discharge clamp, and the

radio frequency input to high voltage supply negative discharge pulse using the first diode and the electrostatic discharge clamp.

Claims 2, 3 & 8 are allowable as they depend from claim 6, which is also allowable.

Claim 7 is allowable because the prior art of record does not teach or fairly suggest an apparatus comprising all the features as recited in the claims and in combination with the electrostatic discharge protection circuit is operable to float the high voltage supply and to shunt: the radio frequency input to low voltage supply positive discharge pulse using the second diode, and the radio frequency input to low voltage supply negative discharge pulse using the first diode.

Claims 39-41 are allowable as they depend from claim 7, which is also allowable.

Claim 22 is allowable because the prior art of record does not teach or fairly suggest a low noise amplifier comprising all the features as recited in the claims and in combination with the electrostatic discharge protection circuit is operable to float the low voltage supply and to shunt the input/output pad to high voltage supply positive discharge pulse using the second diode and the electrostatic discharge clamp, and the input/output pad to high voltage supply negative discharge pulse using the first diode and the electrostatic discharge clamp.

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Claims 18 & 19 are allowable as they depend from claim 22, which is also allowable.

Claim 23 is allowable because the prior art of record does not teach or fairly suggest a low noise amplifier comprising all the features as recited in the claims and in combination with the electrostatic discharge protection circuit is operable to float the high voltage supply and to shunt: an input/output pad to low voltage supply positive discharge pulse using the second diode, and an input/output pad to low voltage supply negative discharge pulse using the first diode.

Claims 42 & 43 are allowable as they depend from claim 23, which is also allowable.

Claim 35 is allowable because the prior art of record does not teach or fairly suggest a low noise amplifier comprising all the features as recited in the claims and in combination with floating the low voltage supply while shunting an input/output pad to high voltage supply positive discharge pulse using the second direct discharge path and the third discharge path, and shunting an input/output pad to high voltage supply negative discharge pulse using the first direct discharge path and the direct discharge path.

Claim 32 is allowable as it depends from claim 35, which is also allowable.

Claim 36 is allowable because the prior art of record does not teach or fairly suggest a low noise amplifier comprising all the features as recited in the claims and in combination with floating the high voltage supply while shunting an input/output pad to low voltage supply positive discharge pulse using the second direct discharge path, and shunting an input/output pad to low voltage supply negative discharge pulse using the first direct discharge path.

Claim 44 is allowable as it depends from claim 36, which is also allowable.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SCOTT BAUER whose telephone number is 571-272-5986. The examiner can normally be reached on Tuesday-Saturday 10am-6pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jared Fureman can be reached on 571-272-2391. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/SAB/ 25 MAR 11 /Jared J. Fureman/ Supervisory Patent Examiner, Art Unit 2836